

FIGURE 10

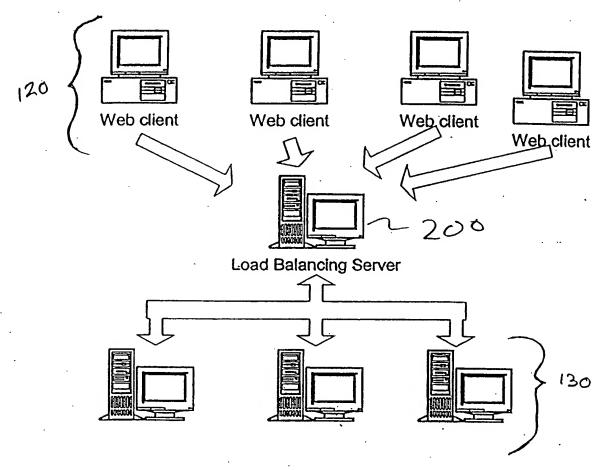


Figure 2 — Machine Scalability Using Load Balancing

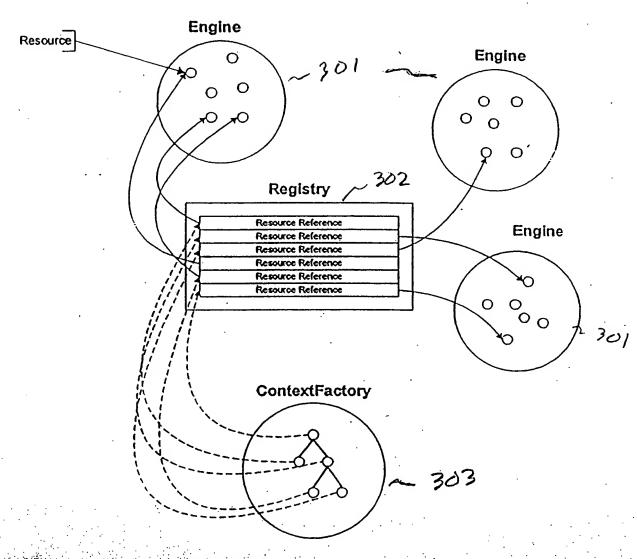
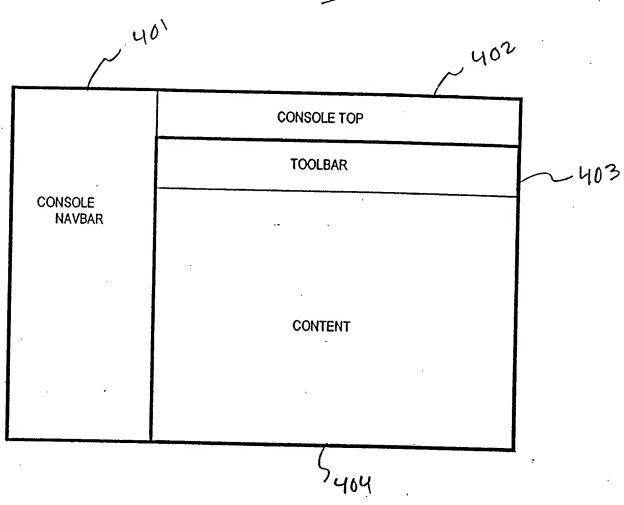
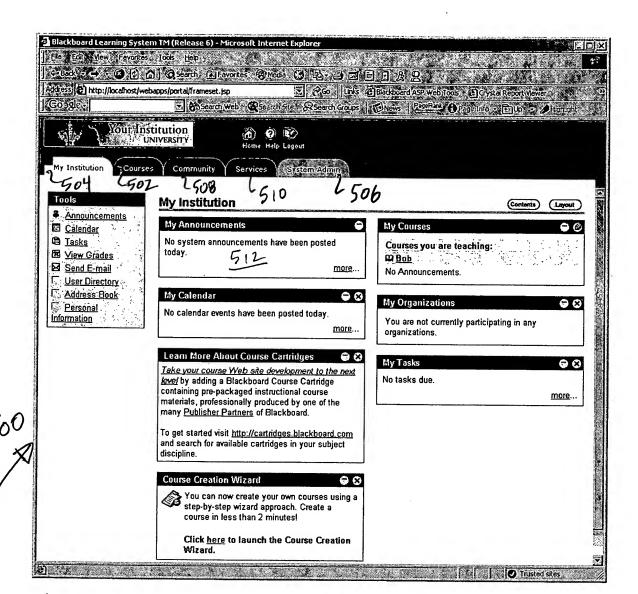


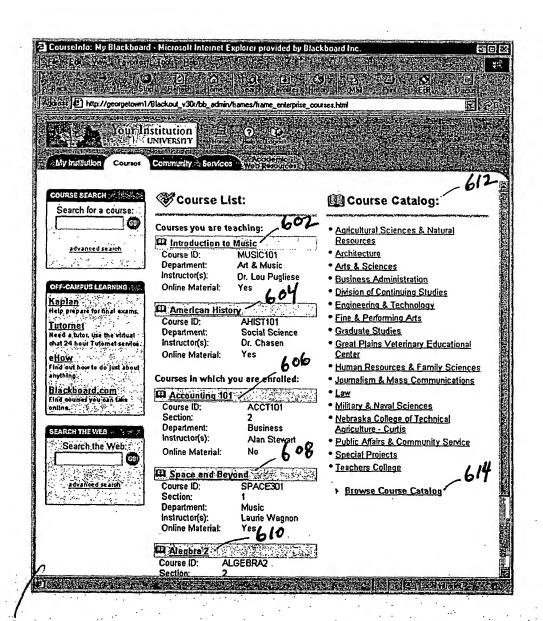
Figure 3 -- Engine/Registry Model

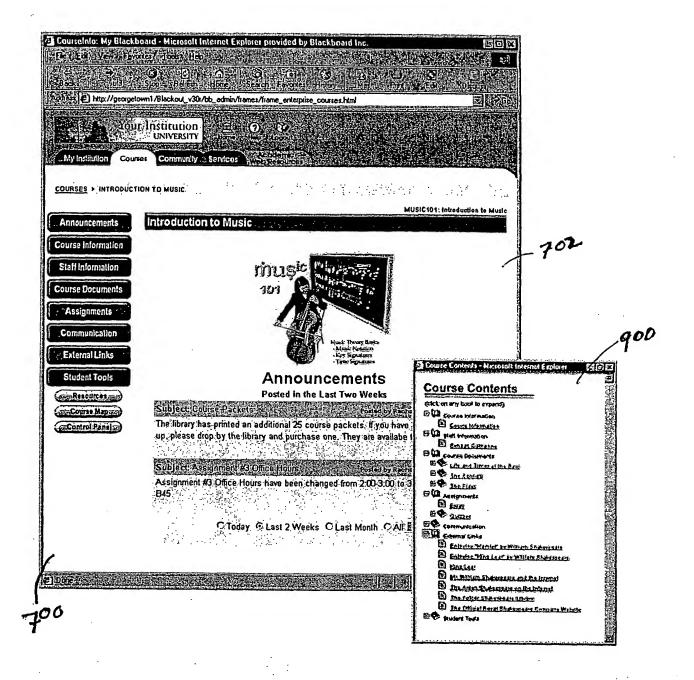


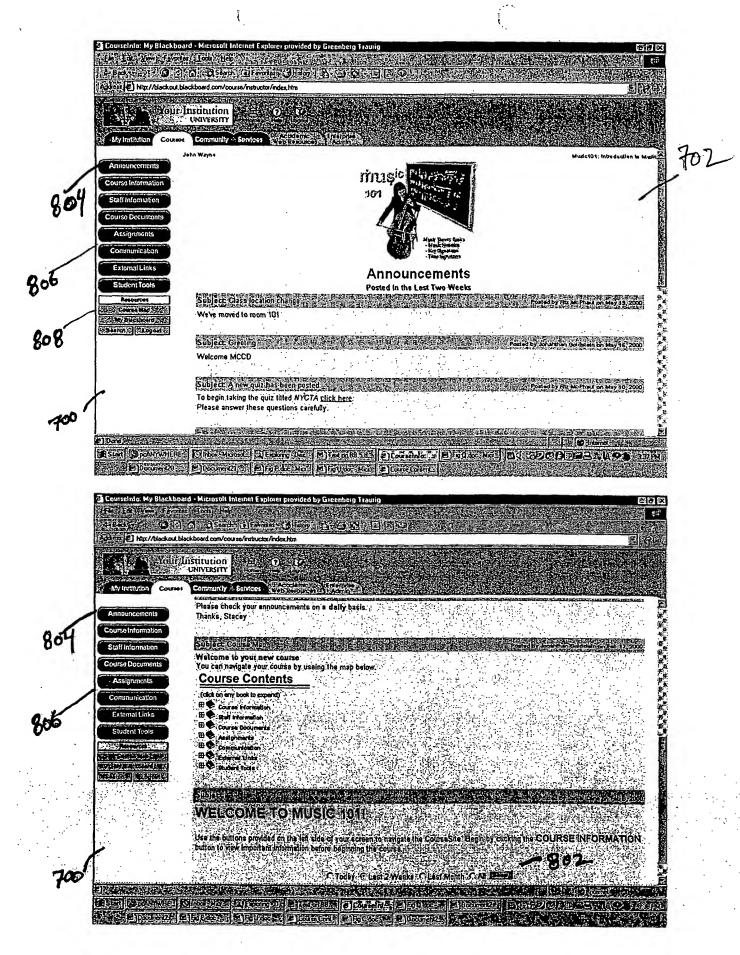
FIBURE 4



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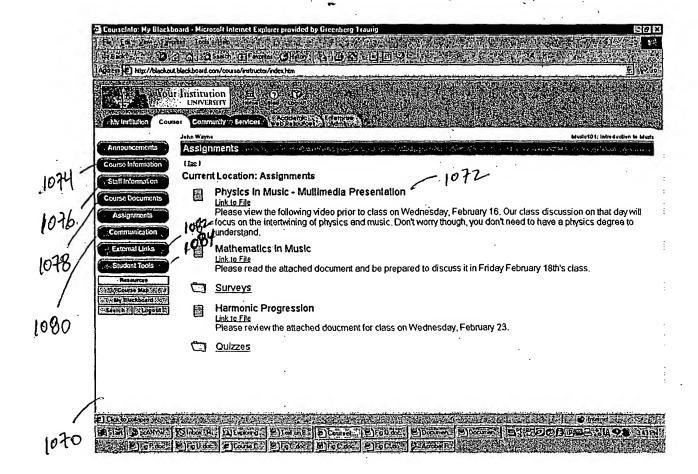
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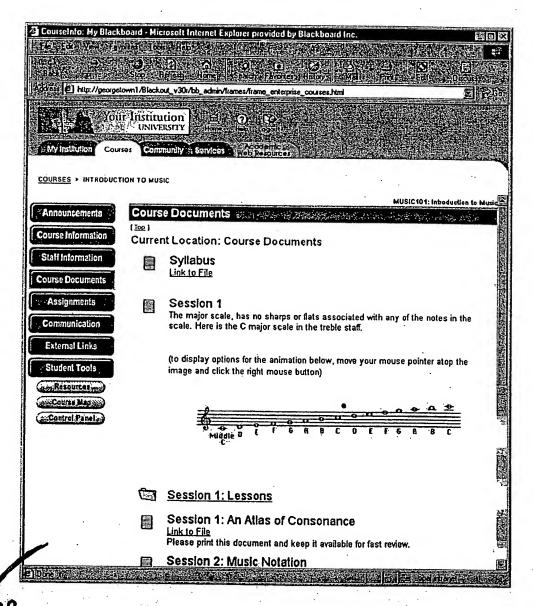
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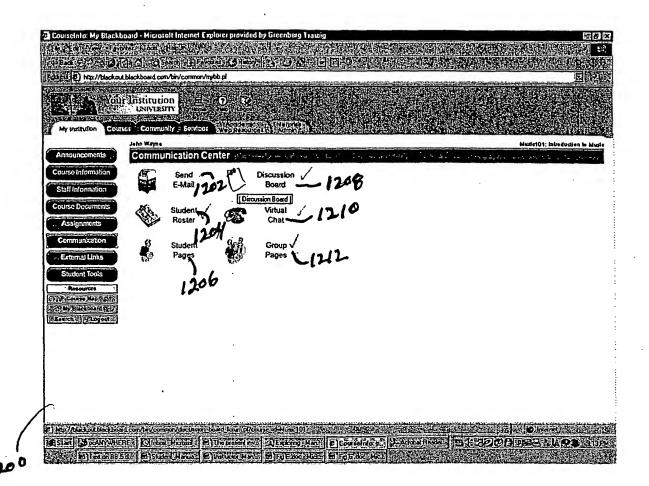
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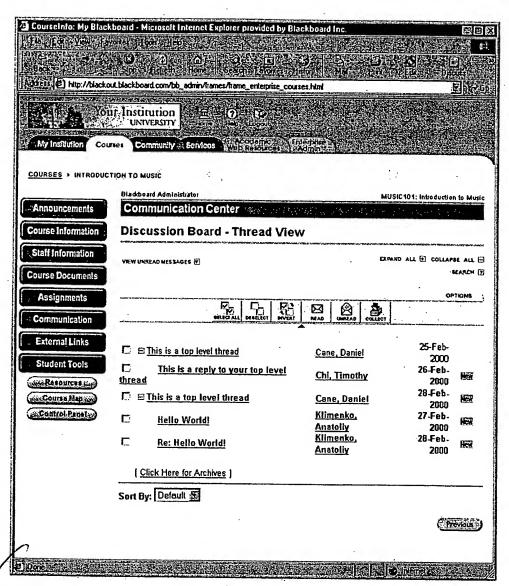
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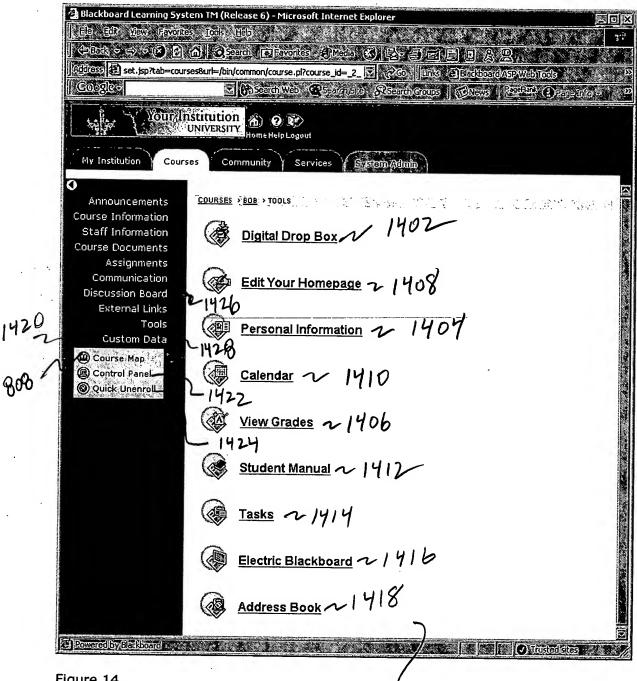


Figure 14.

John Wayne

Music101: Introduction to Music

Student Tools

Student DropBox

Use your student drop box to submit files to your instructor. Also, your instructor can return your files to you with comments attached.



Note: If you want to save a file, right click on the Link Name and choose Save Link As

File Name **Link Name** File Size none none none

<u>Status</u> none

[Remove Files]

Add File to DropBox

Click the Browse button to select the file to attach from your computer. Be sure to specify a linkname for your file.

File to Upload:

Name of Link to File:

(Example: Homework One, Assignment One)

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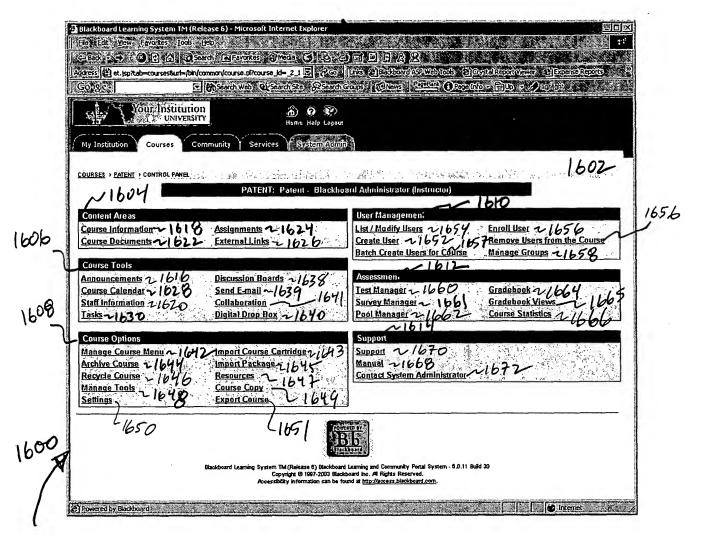
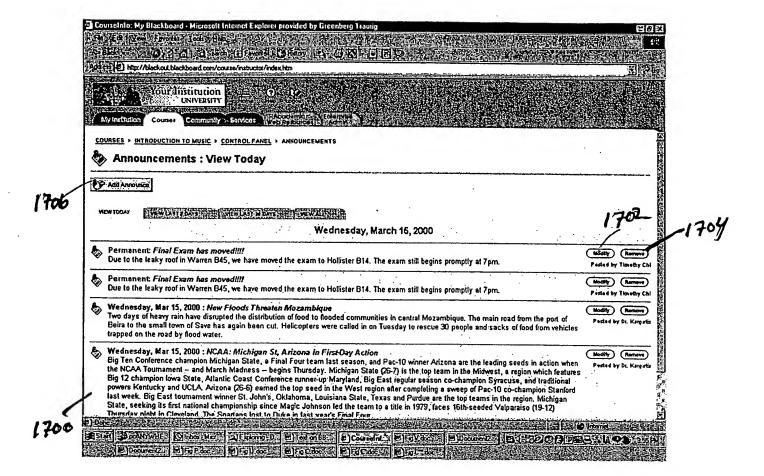
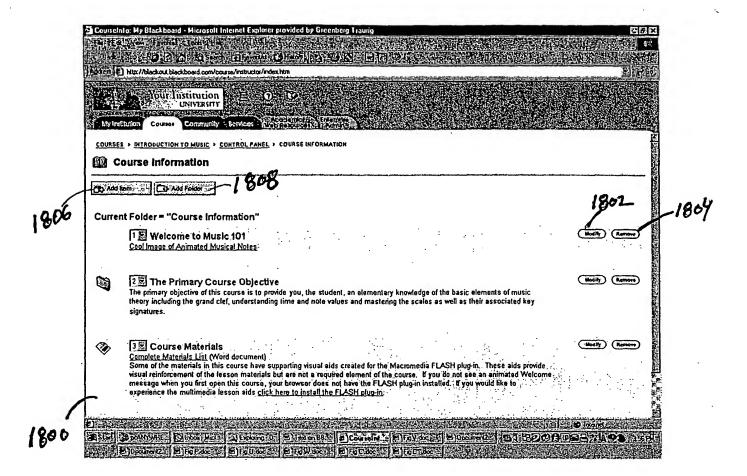
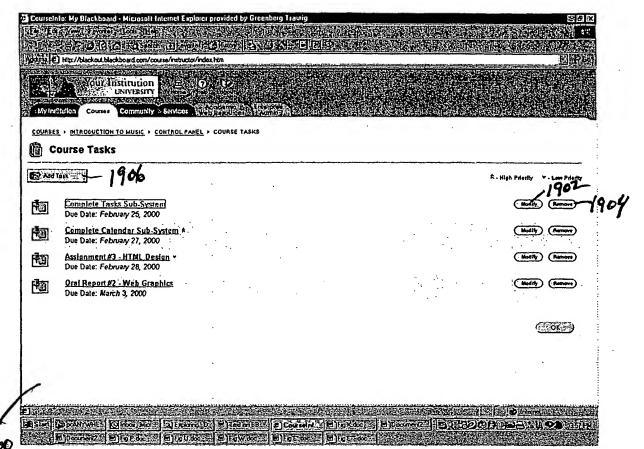


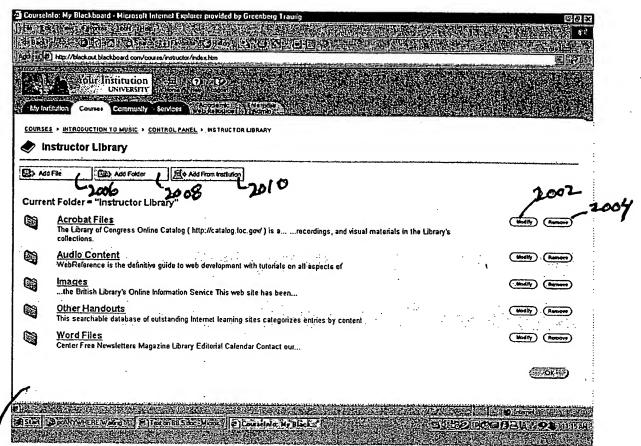
Figure 16.

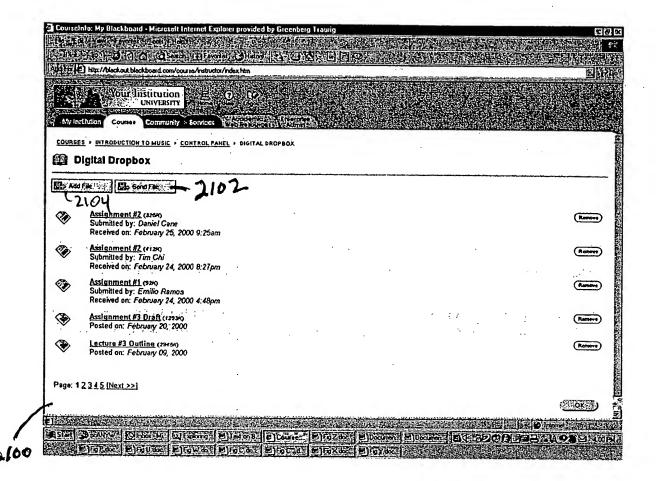






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Figure 22.



Course Statistics

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Note: You may have to reload/refresh this page for the images to be correct.

Total Number of Accesses per Area —2302

Number of Accesses over Time _ 2304

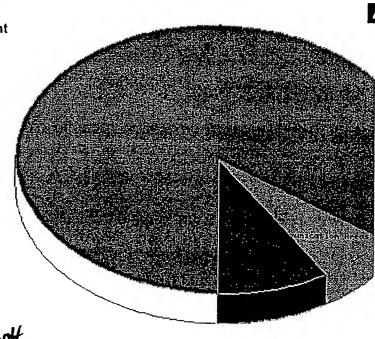
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User Accesses per Day of the Week __ 23 08

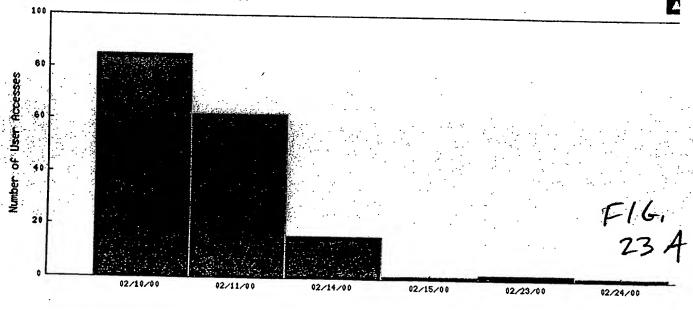
Total Accesses by User __ 2319

Total Number of Accesses per Area

Area Name	Hits	Percent
Content Areas	139	83.2 %
Communication Areas	10	5.98 %
Group Areas		0 %
Student Areas	15	8.98 %
Total	167	100 %

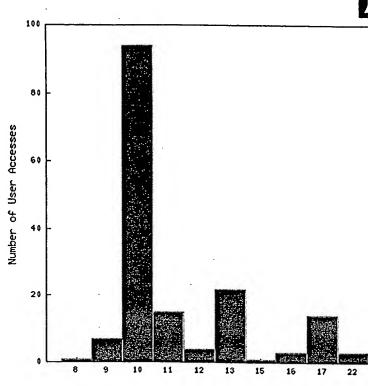


Number of Accesses over Time



User Accesses by Hour of the Day 23 % Hour of The Day

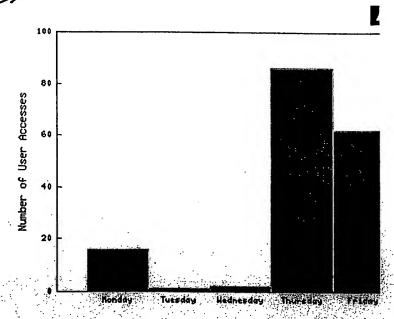
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Hour of The Day	Hits	Percent
8	† ·	0.59 %
9	7	4.19 %
10	94	56.2 %
11	15	8.98 %
12	4	2.39 %
13	22	13.1 %
15	1	0.59 %
16	3	1.79 %
17	14	8.38 %
22	3	1.79 %
23	3 3	1.79 %
Total	167	100 %



Hour of the Day (24h Format)

User Accesses by Day of the Week

Day of The Week	Hits	Percent
Monday	16	9.58 %
Tuesday	1	0.59 %
Wednesday	2	1.19 %
Thursday	86	51.4 %
Friday	62	37.1 %
Total	167	100 %



Day of the Week

2300

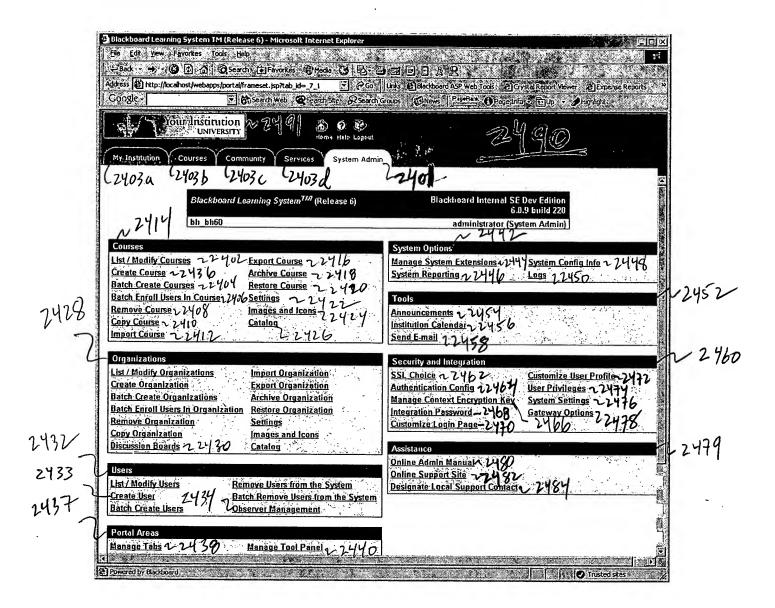
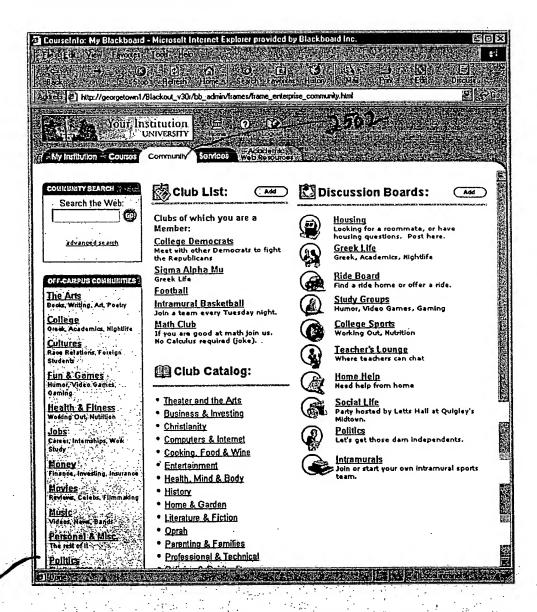
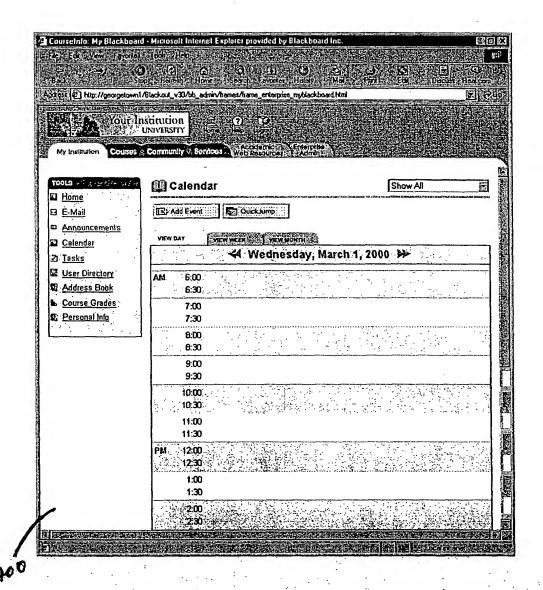


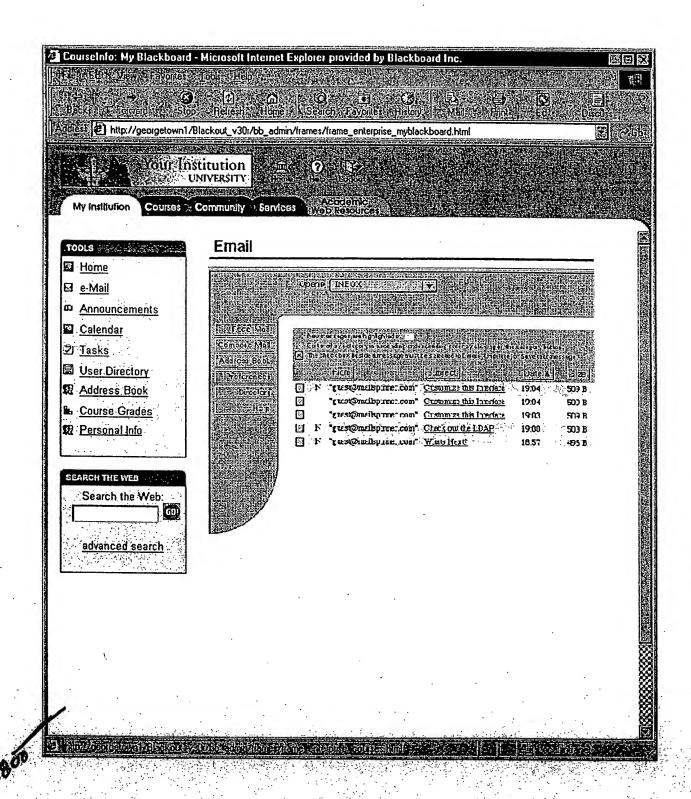
FIG. 24



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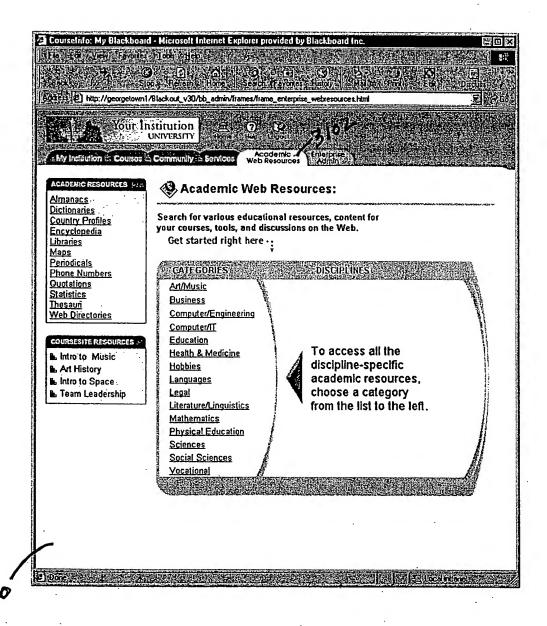
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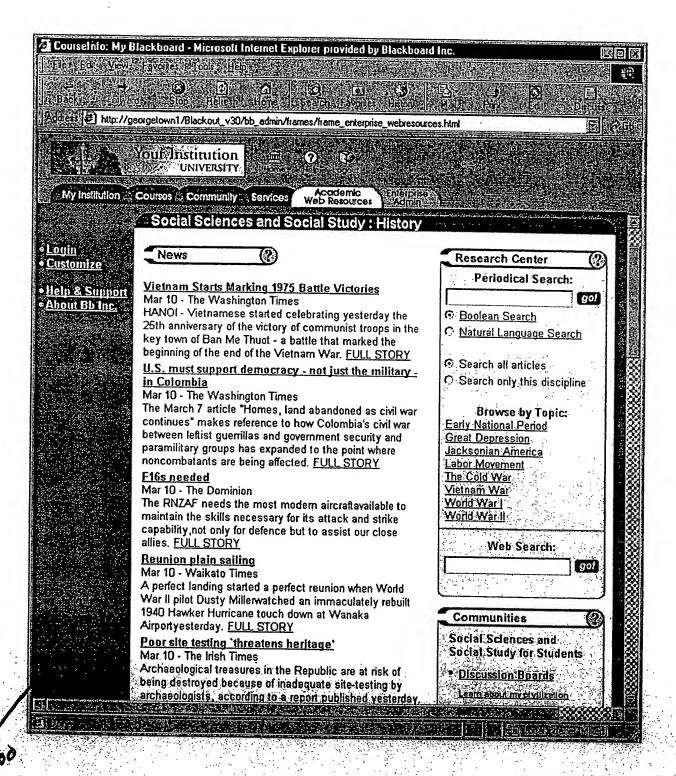
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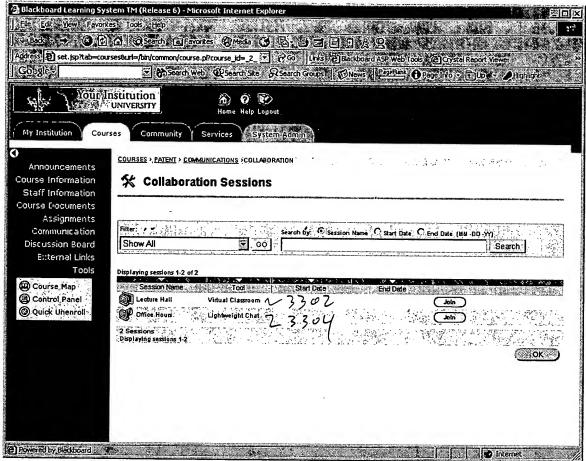


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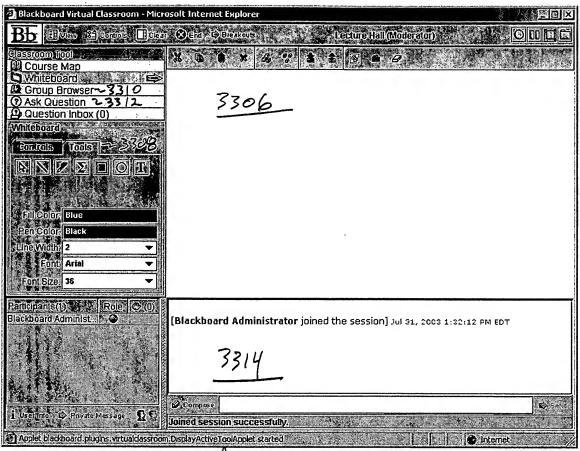
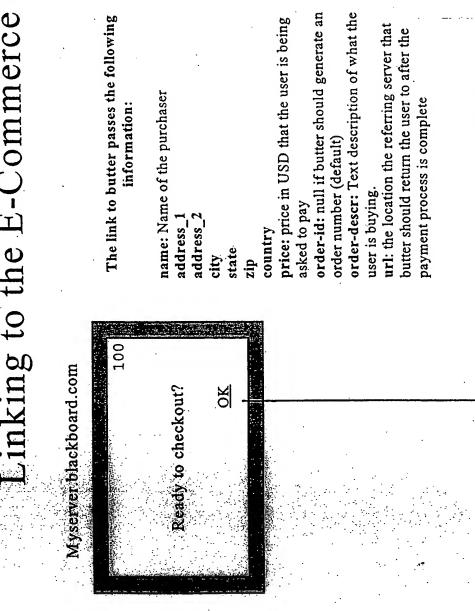


Figure 33 B

inking to the E-Commerce Server

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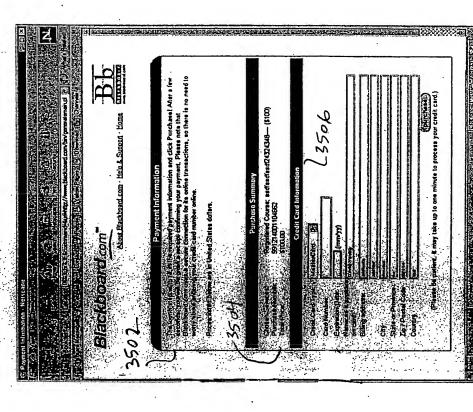


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hyperlink

First E-Commerce Screen Display

Butter.blackboard.com



Accepts VISA, MC, Diner's Club, JCB and Carte Blanche (but not Amex)

Whatever user info is available is populated from the data passed from the previous page.

The unique order number displayed is dynamically generated by the server.

The Chosen services and price displayed are passed in from the previous screen.

The look and feel of this plate (and all butter e-commerce pages) can be modified by an HTML template. This template is selected as one of the script parameters.

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Figure 35

Authorization Process

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Port 80 Socket Request

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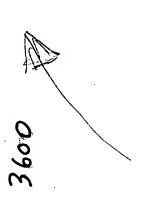
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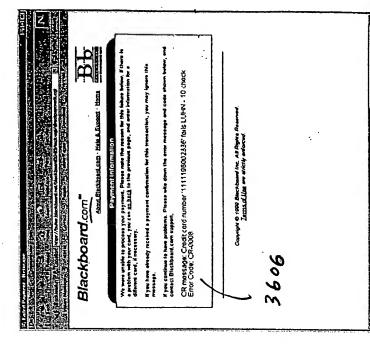
Port 80 Socket Authorization/Decline

•The authorization process takes a minute or so. •If the card is rejected, a page like the one at right

is displayed.

•If the card is accepted, the payment goes through, and the page on the next slide is shown.



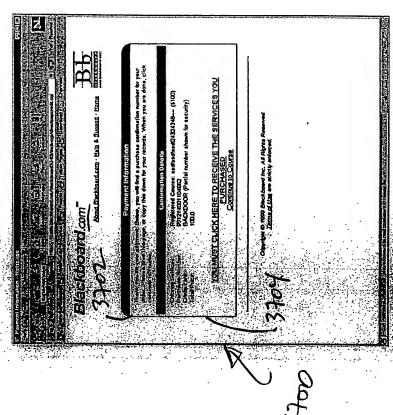


Figure

Second E-Commerce Screen Display

Butter.blackboard,com

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Payment is authorized and queued at Cybercash, Inc for processing.

The payment will go through and appear in Blackboard's Cybercash account within 12 hours.

There is no way that the user can back out at this point without Blackboard issuing a manual refund.

No services are provided yet. The user must follow the link at the bottom of the page, or he will receive nothing for his money.

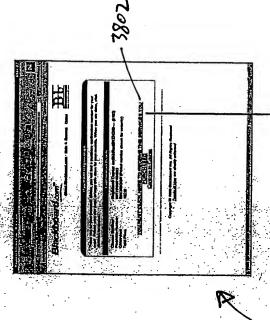
All links on this page are disabled except the one that says "YOU MUST CLICK HERE". This prevents users from failing to get their orders filled.

A authorization code is calculated by the script as a secure hash of the purchase price, the order id, and a secret number.

Figure =

Returning to the Originating Server

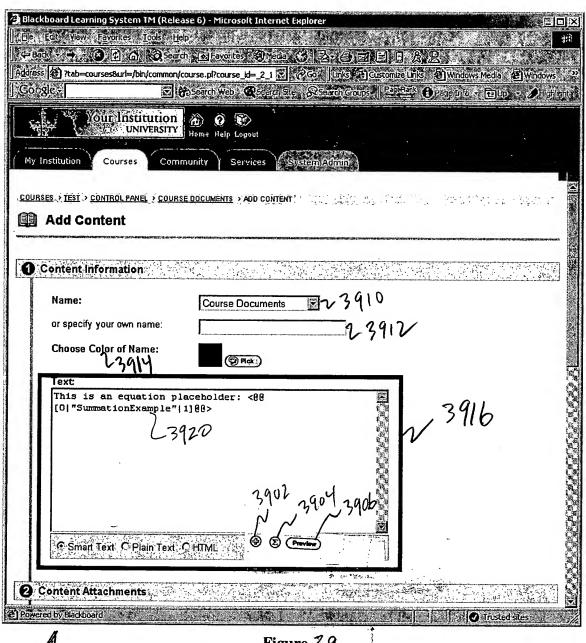
Butter.blackboard.com



- •The link at the bottom of the page points back to the referring server using the location passed in the URL parameter to the first butter script.
- •The authorization code, the order_id and a subset of the credit card digits (show_card) are passed back as parameters.
- •The authorization code should be checked upon return by making an identical hash calculation. If the two hash values match, the order should be fulfilled, otherwise, and error should be shown.

Figure





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Figure 39
Sample Text Editor

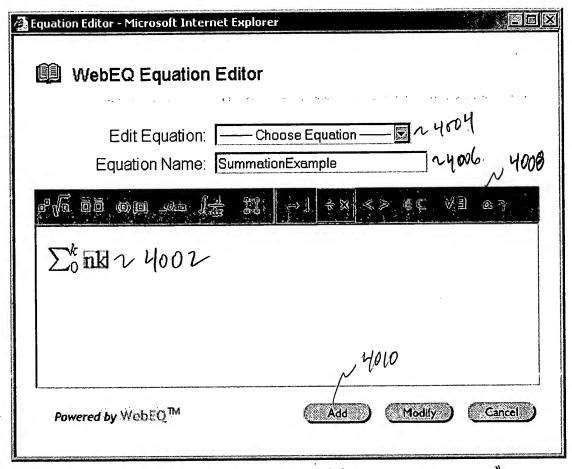


Figure 40
Sample Text Tool (integrated into Blackboard)

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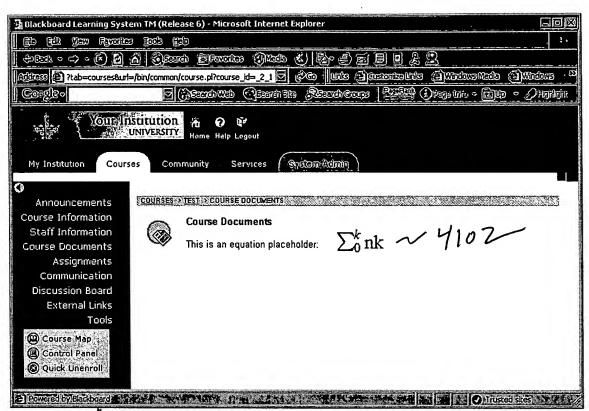


Figure 41
Rendered Data

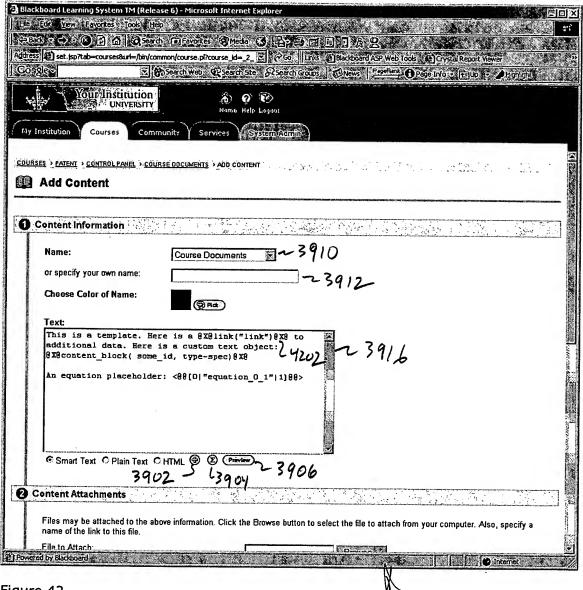
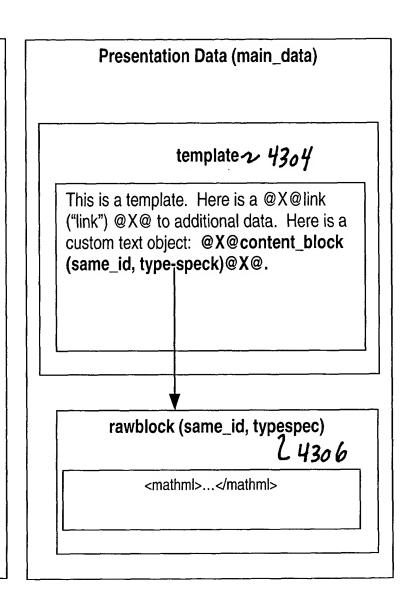
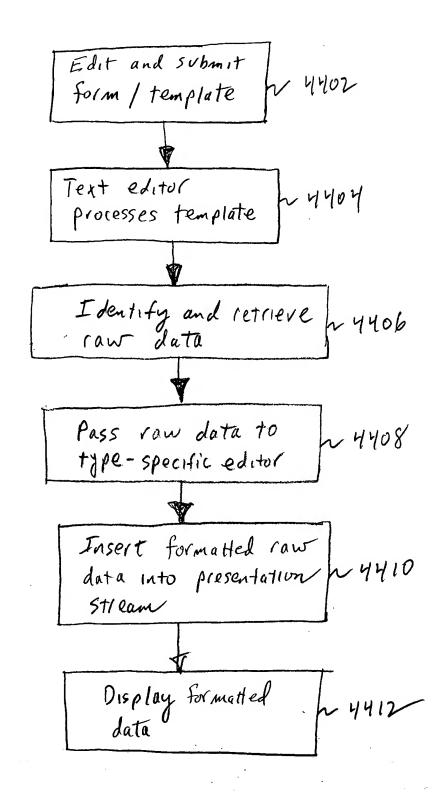


Figure 42.

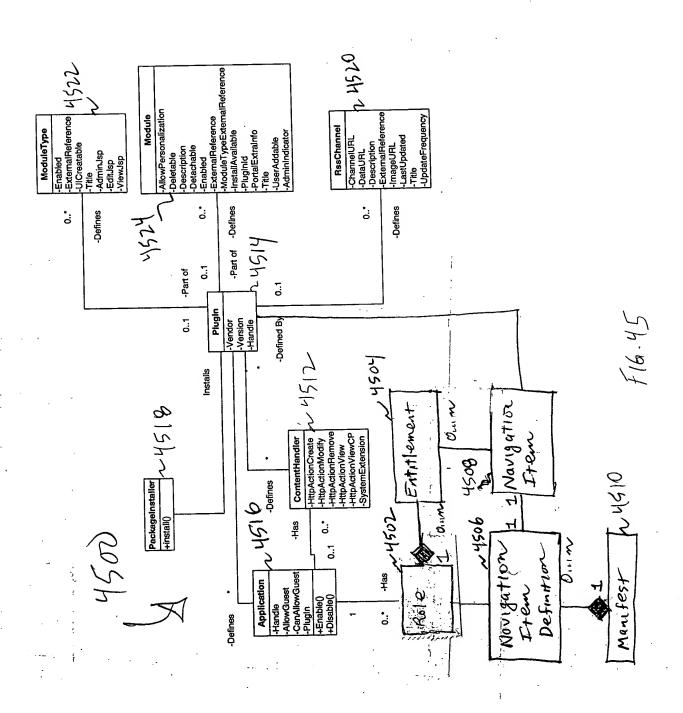
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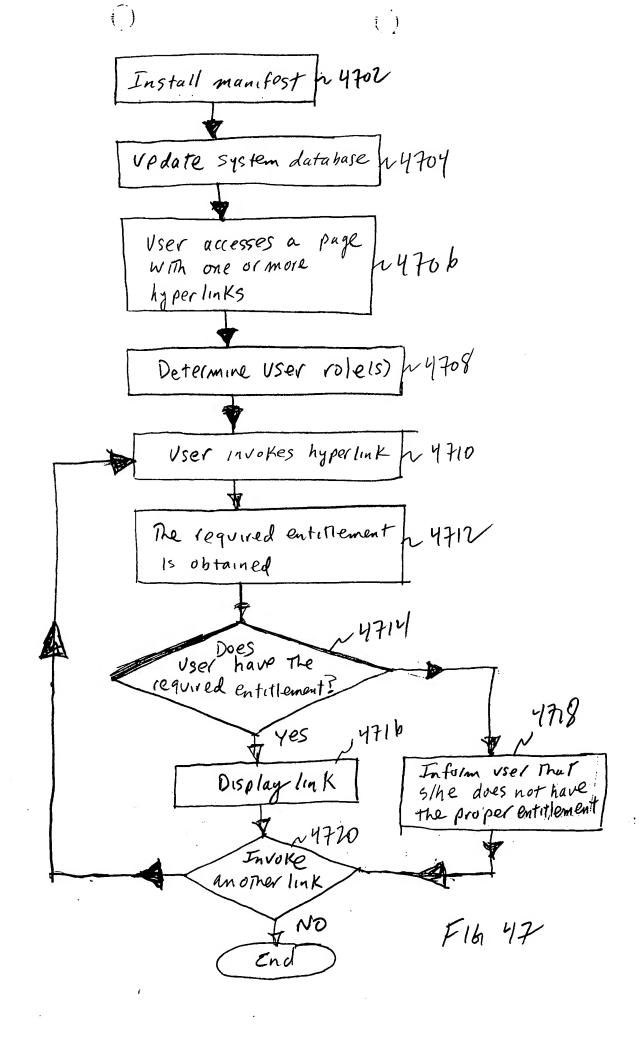
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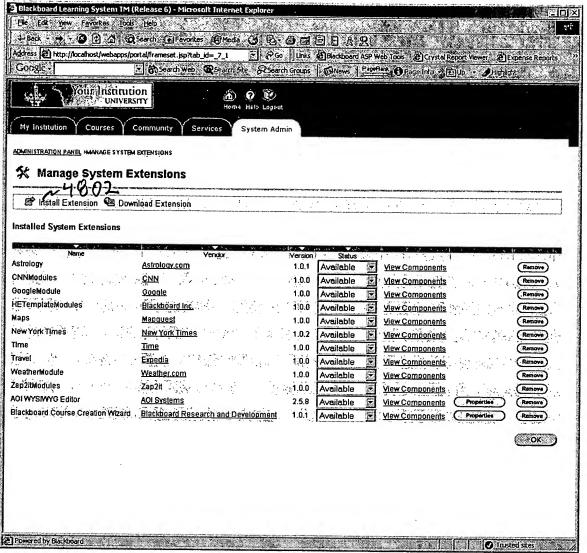
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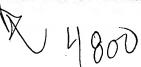
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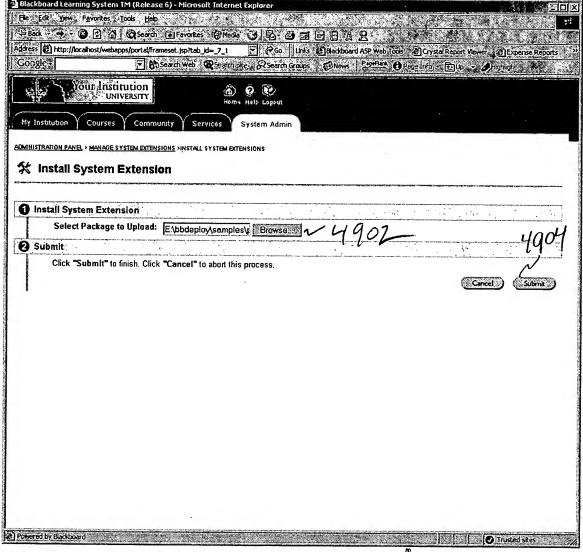
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